

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 72.2)

To:

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Applicant's or agent's file reference

202-015-01

IMPORTANT NOTIFICATION

International application No.

PCT/JP2002/007826

International filing date (day/month/year)

31 July 2002 (31.07.2002)

Applicant

NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY INCORPORATED ADMINISTRATIVE
AGENCY et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

CN, EP, KR

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AU, JP, US

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO
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1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

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Translation

PATENT COOPERATION TREATY

PCT/JP2002/007826



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 202-015-01	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP2002/007826	International filing date (day/month/year) 31 July 2002 (31.07.2002)	Priority date (day/month/year)
International Patent Classification (IPC) or national classification and IPC G06T 7/20, 7/60, 1/00		
Applicant COMMUNICATIONS RESEARCH LABORATORY, INDEPENDENT ADMINISTRATIVE INSTITUTION		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>	
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>	

Date of submission of the demand 23 April 2003 (23.04.2003)	Date of completion of this report 15 January 2003 (15.01.2003)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

Form PCT/IPEA/409 (cover sheet) (July 1998)

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International Application No.

PCT/JP2002/007826

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed
- ☐ the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the claims:
pages _____, as originally filed
pages _____, as amended (together with any statement under Article 19
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the drawings:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International Application No.

PCT/JP02/07826

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-14	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-14	NO
Industrial applicability (IA)	Claims	1-14	YES
	Claims		NO

2. Citations and explanations

Document 1: Hisashi Miyamori, "Eizo/Onkyo Joho no Kyocho niyoru Naiyo Kensaku no tame no Dosa Shikibetsu Seido no Kaizen," Information Processing Society of Japan Kenkyu Hokoku, 08 March 2002 (08.03.02), Vol. 2002, No. 26, pages 89-94
 Document 2: JP, 11-339009, A (SONY CORPORATION), 10 December 1999 (10.12.99), paragraph 0028 (Family: none)

The subject matter of claims 1 and 9-14 does not involve an inventive step on account of document 1 and document 2 cited in the ISR. Document 1, page 90, right column, line 9 through page 91, left column, line 12 and page 92, left column, line 18 to same page, right column, line 10 describes an image recognition apparatus that acquires an image taken on a tennis match and audio information synchronized with the aforesaid image, determines the positions of player and ball from the aforesaid image, determines the ball impact time based on the aforesaid audio information, and recognizes the player's action based on the aforesaid specified player and ball positions and impact time. Also, document 2, paragraphs 0012-0035 and 0045 pertains to an image recognition apparatus comprising an analytical data generation unit that identifies player, ball, line, etc. from an image taken of a sports match and generates analytical data indicating their trajectory, position, positional relationships, etc.; a score data generation unit that refers to rules, etc. and generates judging data, point data, and rule violation data, etc. based on the aforesaid analytical data; and a score data recording unit that records and displays the aforesaid score data; document 2 discloses the point that the accuracy of the aforesaid data can be improved by using audio data in addition to image data to generate analytical data and score data. Here, the inventions of document 1 and document 2 belong to the closely related technical field of identifying sports images using image and audio information, so adding a constitution to the document 2 invention that generates analytical data and score data using ball impact time obtained from audio data could easily be conceived by a person skilled in the art based on the matters described in document 1.

The subject matter of claims 2 and 8 does not involve an inventive step on account of document 1 and document 2 cited in the ISR. Document 1, page 92, right column, lines 2-10 discloses the point about comparing extracted audio data to a template and making the impact time the time the correlation coefficients of both show a value larger than a threshold value.

The subject matter of claims 3 and 4 does not involve an inventive step on account of document 1 and document 2 cited in the ISR. Document 1, page 92, left column, line 33 to same page, right column, line 1 discloses the point about making the frequency range used in extracting the impact time the frequency range of 100~1500 Hz.

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of Box V:

The subject matter of claims 5-7 does not involve an inventive step on account of document 1 and document 2 cited in the ISR. Document 1, page 92, right column, lines 2-10 discloses the point about extracting audio data in 2048-point units while shifting the extraction start position at intervals of 128 points.